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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,478	04/14/2004	Mutombo J. Muvundamina	DH-006-US-01	8136

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H. B. Fuller  
Patent Department  
1200 Willow Lake Blvd.  
P.O. Box 64683  
St. Paul, MN 55164-0683

EXAMINER

BRUNSMAN, DAVID M

ART UNIT

PAPER NUMBER

1755

DATE MAILED: 09/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/825,478

Applicant(s)

MUVUNDAMINA, MUTOMBO J.

Examiner

David M. Brunsman

Art Unit

1755

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 20040713, 20050818
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_

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Claim 14 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. There is no antecedent basis for "said waterproofing additive" in claim 8. For purposes of examination it has been construed as dependent from claim 10.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-9, 11-13, 24 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 4941921 in view of US Patent 6273928.

Example 3 of the '921 patent teaches making a Stein-Hall adhesive by adding 1.3% of a boron containing solution comprising borax decahydrate, glucose and water; to the reaction zone. The difference between this patent and the instant claims is that the borax is dissolved in the glucose. Column 3, lines 10-22, teaches an aqueous boron suspension that is physically stable as well as pourable preferably comprising 10-12% sodium pentaborate, 0.5-1.5% swellable clay, 0.05-0.16% xanthan gum, 0-0.5% polyacrylate dispersant and the remainder water. It would have been obvious to one of ordinary skill in the art to replace the boron source of the '921 patent with the suspension of the '928 patent because the '928 patent teaches it forms a stable pourable suspension useful anywhere there is a need for boron suspensions. The particular properties recited would be expected to result as the claimed compositions are similar to those suggested by the prior art. In that the combination of the recited boron suspension and the Stein-Hall process would have been obvious, the packaging of said boron suspension with directions for its use would have likewise been obvious to one of ordinary skill in the art.

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Claims 10 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 4941921 in view of US Patent 6273928, as applied above, in view of US Patent 5075360.

Claims 10 and 14 recite addition of particular waterproofing resins to the adhesive. Column 6, line 55 through column 7, line 10 of the '360 patent teaches that it is within the level of ordinary skill in the art to add waterproofing resins such as acetone-formaldehyde resins to stein-hall adhesives. It would have been obvious to one of ordinary skill in the art to add such resins to the above adhesives because they are known in the art to increase the water resistance of stein-hall adhesives.

Claims 16-23 rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5075360 in view of US 4941921 and 6273928 as set forth in the rejection of claim 8 above.

The examples of the '360 patent teach the formation of double and single backed corrugated board by applying a stein-hall adhesive to the fluted tips of a corrugated liner. The difference between the '360 patent and the instant claims is the adhesive used. It would have been obvious to one of ordinary skill in the art to employ the adhesive suggested by the combination of 4941921 and 6273928 in the process of 5075360 because the prior art teaches it is useful as a stein-hall adhesive.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Brunsman whose telephone number is 571-272-1365. The examiner can normally be reached on M, W, F, Sa; 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1362. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David M Brunsman  
Primary Examiner  
Art Unit 1755

DMB

A handwritten signature in black ink, appearing to read 'David M Brunsman', with a long horizontal stroke extending to the right.